

Ship 31 Jan

Work Order ID 148858 - 1

148858

Page 1

Tuesday, July 12, 2016 8:50:13 AM

Item ID: D350-721-045

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Maintenance Step LH

Start Date: 6/29/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/12/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

DAS
21
9-89

Date: JUL 13 2016

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D350-721	Rev b								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D350-721-045 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
6
9-89

JAN 17 2017

DAS
21
9-89

17-01-174

3x

DAS
28
9-89

JAN 18 2017

3x

JAN 18 2017

DAS
6
9-89

DAS
27
9-89

3x

DAS
28
9-89

JAN 18 2017

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																																																																																						
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval 																																																																																																																																				
Description Work Order Deviation		Disposition																																																																																																																																						
2AC 13 32		2AC 13 32		Completed By																																																																																																																																				
				Lead hand / Supervisor Approval Verification																																																																																																																																				
				QC / QA Coordinator Approval																																																																																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left;">Root Cause</th> <th colspan="4" style="text-align: left;">FAULT CATEGORY</th> </tr> </thead> <tbody> <tr> <td style="width:10%;">Environment ☐</td> <td style="width:10%;">☐</td> <td style="width:10%;">No Re-verification</td> <td style="width:10%;">☐</td> <td style="width:10%;">Pressure/Forced</td> <td style="width:10%;">☐</td> <td style="width:10%;">Temperature/Cure</td> <td style="width:10%;">☐</td> <td style="width:10%;">Power Loss/Surge</td> <td style="width:10%;">☐</td> <td style="width:10%;">Positioned Wrong</td> </tr> <tr> <td>Design ☐</td> <td>☐</td> <td>Operator</td> <td>☐</td> <td>Bending</td> <td>☐</td> <td>Set-up</td> <td>☐</td> <td>Folio/Program</td> <td>☐</td> <td>Outside Dimensions</td> </tr> <tr> <td>Doc/Data ☐</td> <td>☐</td> <td>Offset/Setup</td> <td>☐</td> <td>Centre Not Concentric</td> <td>☐</td> <td>BOM/Route</td> <td>☐</td> <td>Grain</td> <td>☐</td> <td>Over/Under tolerance</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>☐</td> <td>Supplier</td> <td>☐</td> <td>Cracks</td> <td>☐</td> <td>Broken/Damage/Defect</td> <td>☐</td> <td>Weld</td> <td>☐</td> <td>Part Incorrect</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>☐</td> <td>Training</td> <td>☐</td> <td>Crimp/Kink/Ripple/Wave</td> <td>☐</td> <td>Inspection Incomplete/Unqualified</td> <td>☐</td> <td>Wrong Stock Pulled</td> <td>☐</td> <td>Part Lost/Missing</td> </tr> <tr> <td>Material ☐</td> <td>☐</td> <td>Use for Testing</td> <td>☐</td> <td>Cuffs</td> <td>☐</td> <td>Contamination</td> <td>☐</td> <td>Out of Sequence</td> <td>☐</td> <td>Part Moved</td> </tr> <tr> <td>Internal Transport ☐</td> <td>☐</td> <td>Poor Information</td> <td>☐</td> <td>Crushing</td> <td>☐</td> <td>Countersink</td> <td>☐</td> <td>Off-set</td> <td>☐</td> <td>Drawing</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>☐</td> <td>Rushing</td> <td>☐</td> <td>Heat Treat</td> <td>☐</td> <td>Cut Too Short</td> <td>☐</td> <td>Mislabeled</td> <td>☐</td> <td>Finish</td> </tr> <tr> <td>LOA ☐</td> <td>☐</td> <td>Product Improvement</td> <td>☐</td> <td>Wave/Twist in Tube</td> <td>☐</td> <td>Instructions Incomplete/Unclear</td> <td>☐</td> <td>Fit/Function</td> <td>☐</td> <td>Misread</td> </tr> <tr> <td>Substation ☐</td> <td>☐</td> <td>Process Improvement</td> <td>☐</td> <td>Marks/Chatter</td> <td>☐</td> <td>Drill Holes</td> <td>☐</td> <td>Misaligned/off center</td> <td>☐</td> <td>Turning Sequence</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>☐</td> <td>Manufacturing Process</td> <td colspan="8" rowspan="2" style="text-align: center; vertical-align: middle;"> OTHER : _____ </td> </tr> <tr> <td>Misidentified ☐</td> <td>☐</td> <td>Past Due</td> </tr> </tbody> </table>						Root Cause			FAULT CATEGORY				Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____								Misidentified ☐	☐	Past Due
Root Cause			FAULT CATEGORY																																																																																																																																					
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong																																																																																																																														
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions																																																																																																																														
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance																																																																																																																														
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect																																																																																																																														
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing																																																																																																																														
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved																																																																																																																														
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing																																																																																																																														
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish																																																																																																																														
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread																																																																																																																														
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence																																																																																																																														
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____																																																																																																																																					
Misidentified ☐	☐	Past Due																																																																																																																																						

Work Order ID 148858

Tuesday, July 12, 2016 8:50:14 AM

148858

Page 2

Item ID: D350-721-045

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Maintenance Step LH

Start Date: 6/29/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/12/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

130

Packaging

Packaging

0.00

Memo

0.00

Identify and pack for shipping as per PPP D350-721-045

Identify and Stock

Location : FG124

3x

DAS
27 28
9-89 9-89

JAN 18 2017

140

140

QC

QC21- Final Inspection - Work Order Release

0.00

Memo

0.02

DAS
21
9-89

JAN 19 2017

Quality Control

DAS
21
9-89 JAN 19 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, July 12, 2016 8:50:13 AM

Page 1

Work Order ID: 148858

148858

Parent Item: D350-721-045

D350-721-045

Parent Item Name: Maintenance Step LH

Start Date: 6/29/2016

Required Date: 7/12/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP A 05.05.11New IssueKJ/JLM
IPP B 07.10.10 removed D3436-041 EC verified by DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4-16A

Purchased

No

110

Each

243.0000

4

4 18

DAS

6

9-89

AN4-16A

Bolt

**

JAN 18 2017

Location

Loc Qty

Loc Code

FG

5

121541

5

over003

100

x/2

135948

M135127

100

ST343

138

M135058

138

D3436-043

Manufactured

No

110

Each

0.0000

1

14

JAN 18 2017

D3436-043

Step LH

MS20365-428

MS21044N4

Purchased

No

110

Each

9.0000

4

4/10

**

148897x8

MS20365-428

Nut

**

134676x15

DAS

6

9-89

Location

Loc Qty

Loc Code

ST314

9

m128818

9

JAN 18 2017

NAS1149F0463P

Purchased

No

110

Each

793.0000

8

832

**

NAS1149F0463P

Washer

DAS

6

9-89

Location

Loc Qty

Loc Code

ST262

793

m127832

793

JAN 18 2017

DAS
28
9-89

24

32

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : _____							

Work Order ID 148858

Tuesday, January 17, 2017 2:33:48 PM

148858

Page 1

Item ID: D350-721-045**Accept*****N900040100*****Setup Start*****NS1*****Revision ID:****Stop*****NS2*****Item Name:** Maintenance Step LH**Start Date:** 6/29/2016 **Start Qty:** 4.00***4*****Cust Item ID:****Required Date:** 7/12/2016 **Req'd Qty:** 4.00***4*****Customer:****Reference:****Approvals:****Process Plan:** _____**Date:** _____**Tooling:** _____**Date:** _____**Run Start*****NR1*****QC:** _____**Date:** _____**SPC (Y/N):** _____**Date:** _____**Stop*****NR2*****Sequence ID/
Work Center ID****Operation
Description****Set Up/
Run Hours****Tool ID****Tool #****Plan
Code****Accept
Qty****Reject
Qty****Reject
Number****Insp.
Stamp****Draw Nbr****Revision Nbr**

IIN-D350-721

Rev b

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels per PPP D350-721-045 CHG001

DAS
21
9-89

JAN 17 2017

(4)

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.02

Quality Control

REFERENCE ONLY**6.0 PARTS LIST**

Qty -011	Qty -041	Qty -043	Qty -045	Qty -046	PART NUMBER	DESCRIPTION
X					D350-721-011	BASKET CLAMP KIT
	X				D350-721-041	LIGHTWEIGHT HELI- UTILITY-BASKET™
		X			D350-721-043	LIGHTWEIGHT HELI-UTILITY-BASKET™, SHORT VERSION
			X		D350-721-045	MAINTENANCE STEP, LH
				X	D350-721-046	MAINTENANCE STEP, RH
	1				D3324-041	BASKET BASE ASSEMBLY
	1				D3325-041	BASKET LID ASSEMBLY
		1			D3326-041	BASKET BASE ASSEMBLY
		1			D3327-041	BASKET LID ASSEMBLY
	2	2			D2022-101	SPACER
3	3	3			D2230-1	LUG
4	4	4			D2230-3	CLAMP
	1	1			D2332-041	PROP ASSEMBLY
	1	1			D2530	HANDLE ASSEMBLY
	2	2			D2535	SPRING
	2	2			D2537	BUSHING
8	8	8			D2732-030	RUBBER CUSHION
	2	2			D2931	BUMPER
	1	1			D3338-1	LUG
	2	2			D3350-041	STRUT
	1	1			D3351-1	LABEL
			1	1	D3436-041	CLAMP
			1		D3436-043	LH STEP
				1	D3436-044	RH STEP
	2	2			AN3-16A	BOLT
	2	2			AN4-7A	BOLT
	2	2			AN4-12A	BOLT
	4	4			AN4-14A	BOLT
8	8	8			AN4-15A	BOLT
			4	4	AN4-16A	BOLT
	1	1			AN4-20A	BOLT
	1	1			AN4-22A	BOLT
	4	4			AN5-17A	BOLT
			8	8	AN960-416	WASHER
16	30	30			AN960JD416	WASHER
	2	2			AN960JD416L	WASHER
	4	4			AN960JD516	WASHER
	2	2			AN960JD8	WASHER
	4	4			AN970-4	WASHER
			4	4	MS20365-428	NUT
	2	2			MS20600AD4W3	RIVET
	2	2			MS21042L3	NUT (OR MS21042-3)
8	18	18			MS21042L4	NUT (OR MS21042-4)
	4	4			MS21042L5	NUT (OR MS21042-5)